

ABSTRACT

Water and Oil Repellent Masonry Treatments

5 The present invention provides a water-soluble and shelf-stable aqueous
fluorochemical polymeric treatment useful to treat porous substrates to render them
repellent to water- and oil-based stains. The treatment comprises a water-soluble or
dispersible fluorochemical polymer containing only carbon atoms in the backbone,
with a plurality of each of the following groups pendent from the backbone: (a)
10 fluoroaliphatic groups, (b) carboxyl-containing groups, (c) silyl groups and optionally
(d) other non-hydrophilic groups. Because the water-soluble polymeric treatment, and
the shelf-stable aqueous solutions thereof, can be applied to porous substrates in
aqueous solution, they eliminate the need for environmentally harmful and toxic co-
solvents.

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